

What is claimed is:

1. A heat-curable thixotropic mixture containing carbamate and/or allophanate groups, comprising
 - (A) at least one oligomer and/or polymer selected from the group consisting of oligomers and polymers containing allophanate groups, carbamate groups, and carbamate and allophanate groups, and
 - (B) at least one thixotropic agent selected from the group consisting of urea or urea derivatives preparable by reacting at least one amine and/or water with at least one polyisocyanate,with the proviso that the mixture in question, based on its solids,
 - further comprises at least one silica as thixotropic agent (C), and
 - contains the thixotropic agent (B) in an amount of from 0.1 to 5% by weight if the oligomers and polymers (A) contain no allophanate groups.
2. The mixture as claimed in claim 1, which is comprising oligomers and/or polymers (A) containing allophanate groups comprises at least one silica as thixotropic agent (C).
3. The mixture as claimed in claim 1 or 2, comprising
 - (D) at least one wetting agent.
4. The mixture as claimed in any of claims 1 to 3, wherein the oligomers and polymers (A) are selected from the group consisting of random, alternating and block, linear and branched and comb, addition (co)polymers of ethylenically unsaturated monomers, polyaddition resins and polycondensation resins.
5. The mixture as claimed in claim 4, wherein the addition (co)polymers (A) are selected from the group consisting of (meth)acrylate copolymers and polyvinyl esters and the polyaddition resins and polycondensation resins are selected from the group consisting of polyesters, alkyds, polyurethanes, polylactones, polycarbonates, polyethers, epoxy resin-amine adducts, polyureas, polyamides and polyimides.

6. The mixture as claimed in any of claims 1 to 5, wherein the amines are selected from the group consisting of acyclic aliphatic, aliphatic-aromatic, cycloaliphatic, aliphatic-cycloaliphatic and cycloaliphatic-aromatic primary and secondary monoamines.
7. The mixture as claimed in claim 6, wherein the monoamines are selected from the group consisting of methoxypropylamine, benzylamine and n-hexylamine.
8. The mixture as claimed in any of claims 1 to 7, wherein the polyisocyanates contain on average per molecule at least 1.8 isocyanate groups.
9. The mixture as claimed in any of claims 1 to 8; wherein the polyisocyanates are selected from the group consisting of hexamethylene diisocyanate and its oligomers.
10. The mixture as claimed in any of claims 1 to 9, wherein the silicas are selected from the group consisting of modified pyrogenic, hydrophilic and hydrophobic, transparent silicas.
11. The mixture as claimed in any of claims 3 to 10, wherein the wetting agents (D) are selected from the group consisting of siloxanes, fluorine compounds, carboxylic half-esters, phosphates, polyacrylic acids and their copolymers, and polyurethanes.
12. The mixture as claimed in any of claims 1 to 11, comprising at least one crosslinking agent containing on average per molecule at least two reactive functional groups which are complementary to carbamate groups and allophanate groups.
13. The mixture as claimed in any of claims 1 to 12, wherein the oligomers and polymers (A) contain on average per molecule at least one reactive functional group which is complementary to carbamate groups and allophanate groups.
14. The mixture as claimed in claim 12 or 13, wherein the complementary reactive functional groups are selected from the group consisting of N-methylol groups and N-methylol ether groups.

15. The mixture as claimed in any of claims 1 to 14, comprising further crosslinking agents selected from the group of the blocked, part-blocked and unblocked polyisocyanates.
16. A process for preparing a heat-curable thixotropic mixture containing carbamate and/or allophanate groups as claimed in any of claims 1 to 15 by mixing of the constituents (A) and (B) or (A), (B) and (C), which comprises preparing the thixotropic agent (B) by reacting at least one amine with at least one polyisocyanate in the presence of at least one oligomer and/or polymer (A).
17. The use of a heat-curable thixotropic mixture containing carbamate and/or allophanate groups as claimed in any of claims 1 to 15 as a coating material, adhesive or sealing compound.
18. The use as claimed in claim 17, wherein the coating material is used as a clearcoat material.
19. The use as claimed in claim 17 or 18, wherein the coating material, adhesive or sealing compound is used in the fields of automotive OEM finishing, automotive refinish, the coating of buildings, inside and out, the coating of furniture, windows and doors and industrial coating, including coil coating, container coating, the impregnation or coating of electrical components and the coating of white goods, including domestic appliances, boilers and radiators.